

IN FILE 'CAPLUS' AT 12:21:11 ON 16 DEC 2007

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(FILE 'HOME' ENTERED AT 12:16:54 ON 16 DEC 2007)

FILE 'CAPLUS' ENTERED AT 12:17:10 ON 16 DEC 2007

L1 E US20040209119/PN  
1 S E3  
DELETE SELECT Y  
SEL L1 RN 1-

— Application 10/801.113

FILE 'REGISTRY' ENTERED AT 12:18:16 ON 16 DEC 2007

L2 4 S E1-E4

FILE 'REGISTRY' ENTERED AT 12:19:00 ON 16 DEC 2007

L3 SET TERMSET E#  
DEL SEL Y  
SEL L2 1 RN  
1 S E1/RN  
SET TERMSET LOGIN

FILE 'CAPLUS' ENTERED AT 12:19:04 ON 16 DEC 2007

L4 3 S L3

=>

# EAST Search History

10/801,113

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1	"10/801113"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/12/16 12:25
L2	38497	benzimidazole	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/12/16 12:28
L3	1235	2 same (host or light-emit\$ or emissive or LEL or luminescen\$ or coumarin)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/12/16 12:30
L4	1248920	(428/690 428/917 313/504 313/506 257/98 252/301.16).cccls. or electrolumines\$ or oled or light-emit\$ or emissive or luminescent or luminescence or (light same (display or device))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/12/16 12:27
L5	564	3 and 4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/12/16 12:27
L6	5234	benzimidazol\$ near5 (benzene or phenyl)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/12/16 12:29
L7	74	5 and 6	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/12/16 12:30
L8	0	"benzimidazolyl)benzene"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/12/16 12:29
L9	2	(\$benzimidazolyl-benzene)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/12/16 12:29
L10	0	(\$benzimidazol2\$-benzene)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/12/16 12:29
L11	242	2 same host	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/12/16 12:30

## EAST Search History

L12	110	11 and 4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/12/16 12:30
L13	154	7 or 12	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/12/16 12:30
L14	140	host and l13	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/12/16 12:30
L15	140	(host or guest or fluoresc\$ or \$coumarin or coumarin\$ or dopant or doping or dope or doped) and l14	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/12/16 13:43
L16	140	(host or guest or fluoresc\$ or \$coumarin or coumarin\$ or dopant or doping or dope or doped) and 14	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/12/16 14:10
L17	3	"20020055014" and (fluorescenc\$ or dye or coumarin)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/12/16 13:51
L18	4	"6876684".pn. "6171715".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/12/16 14:28
L19	2	"20040161004"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/12/16 14:09
L20	1	16 and "6876684".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/12/16 14:16
L21	28	("4768292" "5141671" "5150006" "5151629" "5405709" "5484922" "5593788" "5645948" "5683823" "5755999" "5928802" "5935720" "5935721" "6020078").pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/12/16 14:18
L22	14	("4768292" "5141671" "5150006" "5151629" "5405709" "5484922" "5593788" "5645948" "5683823" "5755999" "5928802" "5935720" "5935721" "6020078").pn.	USPAT	OR	ON	2007/12/16 14:18

## EAST Search History

L23	2	"5645948".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/12/16 14:45
L24	0	"5645948".pn. and pixel	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/12/16 14:45

L4 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2007:472961 CAPLUS  
DOCUMENT NUMBER: 147:108388  
TITLE: Zero to Three Dimensional Increase of Silver(I)  
Coordination Assemblies Controlled by Deprotonation of  
1,3,5-Tri(2-benzimidazolyl)benzene and Aggregation of  
Multinuclear Building Units  
AUTHOR(S): Li, Xiang-Ping; Zhang, Jian-Yong; Pan, Mei; Zheng,  
Sheng-Run; Liu, Yu; Su, Cheng-Yong  
CORPORATE SOURCE: MOE Laboratory of Bioinorganic and Synthetic  
Chemistry, State Key Laboratory of Optoelectronic  
Materials and Technologies, School of Chemistry and  
Chemical Engineering, Sun Yat-Sen University,  
Guangzhou, 510275, Peop. Rep. China  
SOURCE: Inorganic Chemistry (Washington, DC, United States)  
(2007), 46(11), 4617-4625  
CODEN: INOCAJ; ISSN: 0020-1669  
PUBLISHER: American Chemical Society  
DOCUMENT TYPE: Journal  
LANGUAGE: English

ABSTRACT:  
Four Ag(I) complexes of a triangular multidentate ligand 1,3,5-tri(2-benzimidazolyl)benzene (H3TBimB), namely, [Ag2(H3TBimB)2](CF3SO3)2 (1), [Ag4(HTBimB)2]n (2), [Ag9(HTBimB)4(TAZ)]n (HTAZ = 1,2,4-triazole) (3), and [Ag17(TBimB)5(HTBimB)(H2O)5]n·nH2O (4), were synthesized at different pH values adjusted by addition of NH3·H2O under solvothermal conditions and characterized by x-ray single-crystal diffraction. Complex 1 shows an M2L2 dimeric structure, 2 displays a 1-dimensional chain containing M4L2 basic units, 3 is a two-dimensional network built up from an M9L4 subunit, and 4 exhibits a three-dimensional framework generated by an M17L6 motif. Dimensional increase in complexes 1-4 was caused by deprotonation of the H3TBimB ligand, thus offering more coordinating donors and resulting in aggregation of oligomeric Ag(I) building units. In the cases of complexes 3 and 4, TAZ or H2O mols. serve as auxiliary ligands to complete the coordination geometry of the Ag(I) ions wherever necessary. The photoluminescent properties of the ligand H3TBimB and the complexes 1-3 were studied.

REFERENCE COUNT: 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2006:1218079 CAPLUS  
DOCUMENT NUMBER: 147:365225  
TITLE: Novel synthetic method for triacetylbenzene  
AUTHOR(S): Zhang, Bin; Gao, Yong; Li, Jian Li; Shi, Zhen  
CORPORATE SOURCE: Department of Chemistry, Northwest University, Xi'an,  
710069, Peop. Rep. China  
SOURCE: Chinese Chemical Letters (2006), 17(9), 1165-1168  
CODEN: CCLEE7; ISSN: 1001-8417  
PUBLISHER: Chinese Chemical Society  
DOCUMENT TYPE: Journal  
LANGUAGE: English

ABSTRACT:  
Triacetylbenzene was prepared from tribenzimidazolium salt and Grignard reagent. The addition-hydrolysis reaction of tribenzimidazolium salt with Grignard reagent is reported and a novel method for preparation of triacetylbenzene is provided.

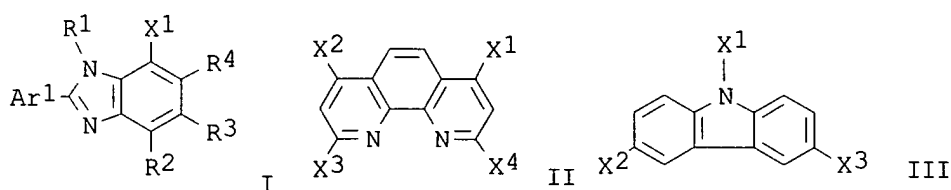
REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:837677 CAPLUS  
DOCUMENT NUMBER: 141:340119  
TITLE: Electroluminescent devices with high luminescence

intensity and efficiency  
 INVENTOR(S): Seo, Tetsushi; Yamazaki, Hiroko  
 PATENT ASSIGNEE(S): Semiconductor Energy Laboratory Co., Ltd., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 27 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2004288439	A	20041014	JP 2003-77875	20030320
US 2004209119	A1	20041021	US 2004-801113	20040316
PRIORITY APPLN. INFO.:			JP 2003-77875	A 20030320
OTHER SOURCE(S):	MARPAT 141:340119			
GRAPHIC IMAGE:				



# ABSTRACT:

The devices, useful for display devices, have emitter layers containing host materials and guest materials both having common structures I (R1 = H, lower alkyl, aryl, heterocyclic ring residue; R2-R5 = H, halo, lower alkyl, alkoxy, acyl, etc.; Ar1 = aryl, heterocyclic ring residue), II (X1-X4 = H, halo, lower alkyl, alkoxy acyl, etc.), or III (X1-X3 = H, halo, lower alkyl, alkoxy acyl, etc.) between pairs of electrodes.

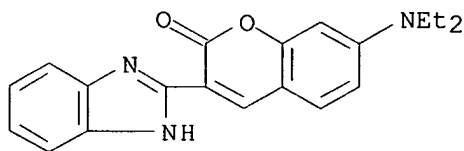
L2 ANSWER 4 OF 4 REGISTRY COPYRIGHT 2007 ACS on STN  
RN 27425-55-4 REGISTRY  
ED Entered STN: 16 Nov 1984  
CN 2H-1-Benzopyran-2-one, 3-(1H-benzimidazol-2-yl)-7-(diethylamino)- (CA  
INDEX NAME)

OTHER CA INDEX NAMES:

CN Coumarin, 3-(2-benzimidazolyl)-7-(diethylamino)- (6CI, 7CI, 8CI)

OTHER NAMES:

CN 3-(2'-Benzimidazolyl)-7-(diethylamino)coumarin  
CN 3-(2-Benzimidazolyl)-7-(diethylamino)coumarin  
CN 3-(Benzimidazol-2-yl)-7-diethylamino-2H-benzopyran-2-one  
CN C.I. 551200  
CN C.I. Disperse Yellow 82  
CN C.I. Solvent Yellow 145  
CN C.I. Solvent Yellow 171  
CN C.I. Solvent Yellow 185  
CN Coumarin 535  
CN Coumarin 7  
CN D 820 Savannah Yellow  
CN Day-Glo Savannah Yellow  
CN Disperse Yellow 82  
CN Disperse Yellow 8GFF  
CN Fluorescent Yellow 9GF  
CN K 7  
CN Kayaset Yellow SF-G  
CN Keystone Fluorescent Yellow 10G  
CN NSC 303254  
CN Oracet Yellow 8GF  
CN Polycron Brilliant Yellow 10GF  
CN Savannah Yellow  
CN Setaron Brilliant Flavine 8GFF  
CN Solvent Yellow 145  
CN Solvent Yellow 185  
CN Sumikaron Brilliant Flavine S 10G  
CN Terasil Brilliant Flavine 8GFF  
CN Terasil Flavine 8GFF  
CN Yellow 8GFF  
DR 12239-58-6, 54576-77-1, 136403-01-5, 222414-02-0  
MF C20 H19 N3 O2  
CI COM  
LC STN Files: AGRICOLA, BEILSTEIN\*, BIOSIS, CA, CAOLD, CAPLUS, CASREACT,  
CHEMCATS, CHEMINFORMRX, CHEMLIST, CSCHEM, DETHERM\*, IFICDB, IFIPAT,  
IFIUDB, MSDS-OHS, TOXCENTER, USPAT2, USPATFULL, USPATOLD  
(\*File contains numerically searchable property data)  
Other Sources: DSL\*\*, EINECS\*\*, TSCA\*\*  
(\*\*Enter CHEMLIST File for up-to-date regulatory information)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

362 REFERENCES IN FILE CA (1907 TO DATE)  
3 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
363 REFERENCES IN FILE CAPLUS (1907 TO DATE)  
2 REFERENCES IN FILE CAOLD (PRIOR TO 1967)